



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY

Melathediyoor, Tirunelveli

(Approved by AICTE and Recognized by UGC Section 2 (f)

An ISO 9001:2008 Certified Institution

(Accredited by NBA and NAAC, Affiliated to Anna University, Chennai)



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATIONS-2012

UG (FULL TIME)

CURRICULUM III-VIII

&

SYLLABUS VII SEMESTER

B.E

(ELECTRONICS AND COMMUNICATION ENGINEERING)



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CURRICULUM (FULL TIME)

SEMESTER III

S.NO	SUB CODE	SUBJECT NAME	L	T	P	C
THEORY						
1	001001	Transformation techniques	4	0	0	4
2	005002	Electronic Circuits	3	1	0	3
3	005003	Electromagnetic Field Theory	3	1	0	3
4	005001	Digital Electronics	3	0	0	3
5	005005	Data Structures and Object Oriented Programming in C++	3	0	0	3
6	005004	Electrical Machines	3	0	0	3
PRACTICAL						
7	005101	Digital Electronics Lab	0	0	3	2
8	005102	Data Structures and Object Oriented Programming Lab	0	0	3	2
9	005103	Electronic Circuits Lab	0	0	3	2
TOTAL			19	2	9	25

SEMESTER IV

S.NO	SUB CODE	SUBJECT NAME	L	T	P	C
THEORY						
1	005006	Signals and Systems	3	1	0	3
2	005007	Communication System Theory	3	0	0	3
3	005008	Transmission Lines and Wave guides	3	1	0	3
4	005009	Linear Integrated Circuits	3	0	0	3
5	005010	Probability and Random Processes	3	1	0	3
6	005011	Applied Electronic Circuits	3	0	0	3
PRACTICAL						
7	005104	Signals and Systems Lab	0	0	3	2
8	005105	Applied Electronic Circuits Lab	0	0	3	2

9	005106	Linear Integrated Circuits Lab	0	0	3	2
TOTAL			18	3	9	24

SEMESTER V

S.NO	SUB CODE	SUBJECT NAME	L	T	P	C
THEORY						
1	005012	Digital Communication	3	0	0	3
2	005013	Digital Signal Processing	3	1	0	3
3	005014	Antenna and Wave Propagation	3	1	0	3
4	005015	Microprocessors and Microcontrollers	3	0	0	3
5	005016	Measurement and Instrumentation	3	0	0	3
6	005017	Control Systems	3	1	0	3
PRACTICAL						
7	005107	Digital Signal Processing Lab	0	0	3	2
8	005108	Communication Systems Lab	0	0	3	2
9	005109	Microprocessors and Microcontrollers Lab	0	0	3	2
TOTAL			18	3	9	24

SEMESTER VI

S.NO	SUB CODE	SUBJECT NAME	L	T	P	C
THEORY						
1	005018	Wireless Communication	3	0	0	3
2	005019	VLSI Design	3	1	0	3
3	005020	Embedded system design	3	1	0	3
4	005021	Telecommunication & Switching Networks	3	1	0	3
5	005022	Data and Voice computer Networks	3	0	0	3
6	#	Elective I	3	0	0	3
PRACTICAL						
7	005110	Computer Networks Lab	0	0	3	2
8	005111	VLSI Design Lab	0	0	3	2
9	005112	Embedded System Lab	0	0	3	2
TOTAL			18	3	9	24

SEMESTER VII

S.NO	SUB CODE	SUBJECT NAME	L	T	P	C
THEORY						
1	005023	Optical Communication and Networks	3	1	0	3
2	005024	Microwave and Radar Engineering	3	0	0	3
3	005025	Digital Image Processing	3	1	0	3
4	005026	ASIC Design	3	1	0	3
5	#	Elective II	3	0	0	3
6	#	Elective III	3	0	0	3
PRACTICAL						
7	005113	Electronic System Design Lab	0	0	3	2
8	005114	Optical & Microwave Lab	0	0	3	2
9	005115	Technical Communication and Soft Skills	0	0	3	2
TOTAL			18	3	9	24

SEMESTER VIII

S.NO	SUB CODE	SUBJECT NAME	L	T	P	C
THEORY						
1	005027	Cellular and Mobile Communication	3	1	0	3
2	#	Elective IV	3	0	0	3
3	#	Elective V	3	0	0	3
PRACTICAL						
4	005301	Project Work	0	0	20	10
TOTAL			09	1	20	19

LIST OF ELECTIVES

#-SEMESTER VI - Elective I

S.NO	SUB CODE	SUBJECT NAME	L	T	P	C
THEORY						
1	005201	Medical Electronics and Instrumentation	3	0	0	3
2	005202	Numerical Methods	3	0	0	3
3	005203	Computer Architecture and Parallel Processing	3	0	0	3
4	005204	Science of Creativity and Professional Ethics	3	0	0	3
5	005205	Information Theory and Coding	3	0	0	3

6	005206	ISDN	3	0	0	3
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LIST OF ELECTIVES
SEMESTER VII – Elective II

S.NO	SUB CODE	SUBJECT NAME	L	T	P	C
THEORY						
1	003222	Total Quality Management	3	0	0	3
2	005206	Robotics and Automation	3	0	0	3
3	005207	Television and Video Engineering	3	0	0	3
4	005208	Cryptography and Network Security	3	0	0	3
5	005209	Avionics	3	0	0	3
6	005210	Intellectual Property Rights	3	0	0	3

LIST OF ELECTIVES
SEMESTER VII – Elective III

S.NO	SUB CODE	SUBJECT NAME	L	T	P	C
THEORY						
1	003216	High Speed Networks	3	0	0	3
2	005211	Parallel and Distributed Processing	3	0	0	3
3	005212	Advanced Microprocessors and Microcontrollers	3	0	0	3
4	005213	Multimedia Compression and Communication	3	0	0	3
5	005214	Soft Computing Technique	3	0	0	3
6	005215	Internet and JAVA	3	0	0	3

LIST OF ELECTIVES
SEMESTER VIII – Elective IV

S.NO	SUB CODE	SUBJECT NAME	L	T	P	C
THEORY						
1	005216	Wireless Sensor Networks	3	0	0	3
2	005217	Speech Processing	3	0	0	3
3	005218	Remote Sensing	3	0	0	3
4	005219	Electromagnetic Interference and Compatibility	3	0	0	3
5	005220	Opto Electronic Devices	3	0	0	3
6	005221	Nano Electronics	3	0	0	3

LIST OF ELECTIVES
SEMESTER VIII - Elective V

S.NO	SUB CODE	SUBJECT NAME	L	T	P	C
THEORY						
1	005222	Wireless Networks	3	0	0	3
2	005223	Satellite Communication	3	0	0	3
3	005224	Telecommunication Switching and Networks	3	0	0	3
4	005225	Advanced Digital Signal Processing	3	0	0	3
5	005226	Mobile Adhoc Networks	3	0	0	3
6	005227	RADAR and Navigation aids	3	0	0	3